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PTOL-85 Part B - Fee(s) Transmittal (1 sheet)
Reply to Notice of Allowance (2 sheets)
PTO/SB/17 Fee Transmittal Form (1 sheet)
PTO-2038 Credit Card Payment Form (1 sheet)

Application Number 10/026,307
Confirmation No.: 7996
Filing Date: 18 December 2001
Document Submission Date: 18 April 2006
Docket: 2000-0480 (1014-221)

Art Unit: 2667
Examiner: Dyke, Kerri M.
Inventor: Basore, David L.

Pages: 6

18 Apr 2006

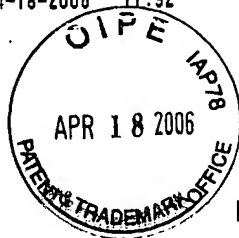
Date

Eden Brown

Name of Certifier

Signature of Certifier

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PATENT

Attorney Docket No. 102.0003-05000

Customer No. 22882

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	Confirmation No.: 1113
Gary Karlin Michelson)	
Serial No.: 10/692,545)	Group Art Unit: 3731
Filed: October 24, 2003)	Examiner: Uyen T. Ho
For: SYSTEM FOR RADIAL BONE)	Notice of Allowance dated:
DISPLACEMENT (as amended))	April 6, 2006

MS ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

REQUEST FOR CORRECTION OF TITLE

Applicant has noted an error in the title of the invention as printed on the Notice of Allowance, as evidenced in the attached copy of page 2 of the Amendment dated December 12, 2005. Applicant therefore respectfully requests that the title of the above-identified application be corrected in the Patent Office records as follows:

change "DISTRACTOR FOR USE IN SPINAL SURGERY" to read as
-- SYSTEM FOR RADIAL BONE DISPLACEMENT --.

Please grant any extensions of time required to enter this paper and charge any additional required fees to our deposit account 50-3726.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: April 18, 2006By: Thomas H. Martin

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COPY

Application No. 10/692,545
Amendment dated December 12, 2005

Amendments to the Title:

Please replace the title with the following amended title:

~~--DISTRATOR FOR USE IN SPINAL SURGERY SYSTEM FOR~~
RADIAL BONE DISPLACEMENT --.



PATENT
Attorney Docket No. 102.0003-05000
Customer No. 22882

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	Confirmation No.: 1113
Gary Karlin Michelson)	
Serial No.: 10/692,545)	Group Art Unit: 3731
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MS ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

AMENDMENT AFTER ALLOWANCE

Pursuant to 37 C.F.R. § 1.312 and subject to the approval of the Commissioner, and without withdrawing the case from issue, kindly amend the subject application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks begin on page 15 of this paper.

312 Amendment.doc

Application No. 10/692,545
Amendment dated April 18, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-49 (cancelled).

50. (previously presented) A system for use in spinal surgery, said system comprising:

a cannula having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior, said sidewall completely surrounding the mid-longitudinal axis of said cannula along a majority of the length of said cannula; and

a surgical instrument comprising:

an elongated handle having opposed ends with a length therebetween, a height, and a rounded gripping portion along the length of said handle, the length of said handle being the maximum dimension of said handle, said handle having a midpoint half way between said opposed ends;

a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends, said proximal end of said shaft being connected to said handle, the longitudinal central axis of said shaft extending through the height of said handle and being offset from the midpoint of said handle; and

an arm extending radially from said shaft proximate said distal end of said shaft, said arm terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft, said arm having a longitudinal axis extending through said shaft and through said surface, said surface being adapted to make a path through the

Application No. 10/692,545
Amendment dated April 18, 2006

cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft, said shaft having a length sufficient to permit said arm to extend beyond said distal end of said cannula when said shaft is inserted into said cannula.

51. (currently amended) The system of claim 50, wherein said surgical instrument further comprises a cylindrical portion having a height parallel to the longitudinal central axis of said shaft and a diameter transverse to the ~~central~~ longitudinal central axis of said shaft, the diameter of said cylindrical portion being greater than the height of said cylindrical portion, said cylindrical portion forming a portion of said handle.
52. (previously presented) The system of claim 51, wherein said cylindrical portion is connected to said proximal end of said shaft.
53. (previously presented) The system of claim 51, wherein said handle has a width, the diameter of said cylindrical portion being greater than the width of said handle.
54. (previously presented) The system of claim 50, wherein said surface is a cutting blade.
55. (previously presented) The system of claim 50, wherein said surface forms a sharp tip.
56. (currently amended) The system of claim 50, wherein ~~said shaft has a length,~~ the length of said shaft ~~being is~~ is greater than the length of said handle.
57. (currently amended) The system of claim 50, wherein ~~said arm has surface is~~ surface is a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in ~~a~~ the plane perpendicular to the longitudinal central axis of said shaft.
58. (previously presented) A system for use in spinal surgery, said system comprising:
 - a tubular member having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal

Application No. 10/692,545
Amendment dated April 18, 2006

ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior, said sidewall completely surrounding the mid-longitudinal axis of said tubular member along a majority of the length of said tubular member; and

a surgical instrument comprising:

an elongated handle having opposed ends and a rounded gripping portion therebetween;

a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends;

an arm extending radially from said shaft proximate said distal end of said shaft, said arm terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft, said arm having a longitudinal axis extending through said shaft and through said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft, said shaft having a length sufficient to permit said arm to extend beyond said distal end of said tubular member when said shaft is inserted into said tubular member; and

a cylindrical portion between the proximal end of said shaft and at least a portion of said handle, said cylindrical portion being connected to said proximal end of said shaft, said cylindrical portion having a maximum height parallel to the longitudinal central axis of said shaft and a diameter transverse to the longitudinal central axis of said shaft, the diameter of said cylindrical portion being greater than the maximum height of said cylindrical portion, the longitudinal central axis of said shaft passing through said cylindrical portion and a portion of said handle.

59. (previously presented) The system of claim 58, wherein said cylindrical portion is connected to said handle.
60. (previously presented) The system of claim 58, wherein said gripping portion of said handle has a length and a width, the diameter of said cylindrical portion

Application No. 10/692,545
Amendment dated April 18, 2006

- being greater than the width of said gripping portion of said handle.
61. (previously presented) The system of claim 58, wherein said surface is a cutting blade.
62. (previously presented) The system of claim 58, wherein said surface forms a sharp tip.
63. (currently amended) The system of claim 58, wherein said gripping portion of said handle ~~and said shaft each have~~ has a length, the length of said shaft being greater than the length of said gripping portion of said handle.
64. (currently amended) The system of claim 58, wherein said ~~arm has~~ surface is a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in ~~a the~~ the plane perpendicular to the longitudinal central axis of said shaft.
65. (previously presented) A system for use in spinal surgery, said system comprising:
- a cannula having a proximal end, a distal end configured for engagement with at least one vertebral body of a human spine, a length therebetween, a mid-longitudinal axis passing through said proximal and distal ends, and a sidewall defining at least in part a passage connecting said proximal and distal ends, said sidewall completely surrounding the mid-longitudinal axis of said cannula along a majority of the length of said cannula; and
 - a surgical instrument comprising:
 - a shaft having a proximal end, a distal end, a longitudinal central axis, and a length between said proximal and distal ends, said instrument being adapted to be deployed into position to displace cancellous bone by movement of said shaft within and along said passage of said cannula;
 - an arm extending radially from said shaft proximate said distal end of said shaft, said arm terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft within said passage of said cannula, said surface having a maximum height from said

Application No. 10/692,545
Amendment dated April 18, 2006

shaft in a plane perpendicular to the longitudinal central axis of said shaft, said arm having a longitudinal axis extending through said shaft and through said maximum height of said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft, the length of said shaft being sufficient to permit said arm to extend beyond said distal end of said cannula; and

a depth stop on said shaft adapted to limit over penetration of said shaft through said cannula.

66. (previously presented) The system of claim 65, wherein said depth stop comprises a shoulder circumferentially surrounding said shaft.
67. (previously presented) The system of claim 66, wherein said depth stop has a diameter greater than a diameter of said passage of said cannula.
68. (currently amended) The system of claim 65, wherein said depth stop includes a lower surface adapted to abut ~~a~~ the proximal end of said cannula to limit movement of said ~~bone~~-instrument through said cannula.
69. (previously presented) The system of claim 65, wherein said surface includes a tip spaced apart from the longitudinal central axis of said shaft and said depth stop has an outer perimeter in a plane transverse to the longitudinal central axis of said shaft, at least a portion of the outer perimeter of said depth stop being closer to the longitudinal central axis of said shaft than said tip.
70. (currently amended) The system of claim 65, wherein said surgical instrument further comprises an elongated handle having opposed ends and a rounded gripping portion therebetween, said handle having a midpoint ~~half-way~~ half-way between said opposed ends.
71. (currently amended) The system of claim 70, wherein said depth stop comprises a cylindrical portion having a maximum height parallel to the longitudinal central axis of said shaft and a diameter transverse to the ~~central~~-longitudinal central axis of said shaft, the diameter of said cylindrical portion being greater than the maximum height of said cylindrical portion.

Application No. 10/692,545
Amendment dated April 18, 2006

72. (previously presented) The system of claim 71, wherein said cylindrical portion is connected to said proximal end of said shaft.
73. (previously presented) The system of claim 70, wherein said gripping portion of said handle has a length and a width, the diameter of said cylindrical portion being greater than the width of said gripping portion of said handle.
74. (previously presented) The system of claim 65, wherein said surface is a cutting blade.
75. (previously presented) The system of claim 65, wherein said surface forms a sharp tip.
76. (previously presented) The system of claim 70, wherein said gripping portion of said handle has a length, the length of said shaft being greater than the length of said gripping portion of said handle.
77. (currently amended) The system of claim 65, wherein said ~~arm has surface~~ is a cutting surface adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in ~~a~~ the plane perpendicular to the longitudinal central axis of said shaft.
78. (previously presented) The system of claim 65, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
79. (previously presented) The system of claim 65, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
80. (currently amended) The system of claim 65, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the ~~central~~-longitudinal central axis of said shaft.

Application No. 10/692,545
Amendment dated April 18, 2006

81. (previously presented) The system of claim 65, wherein said surface has a straight cutting edge.
82. (previously presented) The system of claim 65, wherein said surface is multi-faceted.
83. (previously presented) The system of claim 50, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
84. (previously presented) The system of claim 50, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
85. (currently amended) The system of claim 50, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the ~~central~~-longitudinal central axis of said shaft.
86. (previously presented) The system of claim 50, wherein said surface has a straight cutting edge.
87. (previously presented) The system of claim 50, wherein said surface is multi-faceted.
88. (previously presented) The system of claim 58, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.
89. (previously presented) The system of claim 58, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
90. (currently amended) The system of claim 58, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said

Application No. 10/692,545
Amendment dated April 18, 2006

surface being co-planar with said distal end of said shaft in a plane perpendicular to the ~~central~~-longitudinal central axis of said shaft.

91. (previously presented) The system of claim 58, wherein said surface has a straight cutting edge.
92. (previously presented) The system of claim 58, wherein said surface is multi-faceted.
93. (previously presented) A system for use in spinal surgery, said system comprising:

a tubular member having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior, said sidewall completely surrounding the mid-longitudinal axis of said tubular member along a majority of the length of said tubular member; and

a surgical instrument comprising:

an elongated handle having first and second opposed ends, a length therebetween, the length being the maximum dimension of said handle, and a rounded gripping portion along the length; and

an elongated member having a proximal end, a distal end, and a central longitudinal axis, said elongated member having a plane passing therethrough and extending along the central longitudinal axis, said proximal end of said elongated member being connected to said handle, the central longitudinal axis of said elongated member extending through said distal end and said handle between said first and second opposed ends, said elongated member having a bone-contacting surface having a perimeter with a first linear edge portion and a second linear edge portion opposite said first linear edge portion, at least one of said linear edge portions being adapted to contact and displace bone in response to rotating said elongated member about its central longitudinal axis, said first and second linear edge portions of said bone contacting surface

Application No. 10/692,545
Amendment dated April 18, 2006

being on the same side of the plane extending along the central longitudinal axis of said elongated member;

each of said first and second opposed ends of said handle having a point most-distant from the central longitudinal axis of said elongated member, the length of said handle being in a longitudinal plane with the central longitudinal axis of said elongated member, said most-distant points of said first and second opposed ends of said handle being in respective first and second planes that are parallel to one another and perpendicular to the longitudinal plane, said bone-contacting surface of said elongated member being between the first and second planes of said first and second opposed ends of said handle.

94. (previously presented) The system of claim 93, wherein said bone-contacting surface is adapted to cut bone.
95. (previously presented) The system of claim 93, wherein said bone-contacting surface is adapted to make a radial cut through the bone in a plane perpendicular to the central longitudinal axis of said elongated member.

Claim 96 (cancelled).

97. (previously presented) The system of claim 93, wherein said first and said second linear edge portions are at an angle relative to one another.
98. (previously presented) The system of claim 93, wherein the length of said handle is perpendicular to the central longitudinal axis of said elongated member.
99. (previously presented) An apparatus for use in spinal surgery for displacing bone, said apparatus comprising:

a tubular member having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior, said sidewall completely surrounding the mid-longitudinal axis of said tubular member along a majority of the length of said tubular member; and

Application No. 10/692,545
Amendment dated April 18, 2006

a bone displacement device including a handle having opposed ends and a rounded gripping portion therebetween, an elongated member connected to said handle, said elongated member having a central longitudinal axis, and a bone displacement portion having a first bone-contacting edge and a second bone-contacting edge opposite said first bone-contacting edge, said first and second bone-contacting edges being at an angle relative to one another and at an angle to the central longitudinal axis of said elongated member, said bone displacement device having a length along said elongated portion that is greater than the length of said tubular member sufficient to permit said arm to extend beyond said distal end of said tubular member, said bone displacement portion having a height from the central longitudinal axis of said elongated member that permits at least a portion of said bone displacement portion to extend radially beyond the perimeter of said sidewall of said tubular member in a plane transverse to the mid-longitudinal axis of said tubular member.

100. (previously presented) The apparatus of claim 99, wherein said bone displacement portion is adapted to cut bone.
101. (previously presented) The apparatus of claim 99, wherein said bone displacement portion is adapted to make a radial cut through the bone in a plane perpendicular to the central longitudinal axis of said elongated member.
102. (previously presented) The apparatus of claim 99, wherein said handle has a length which is the maximum dimension of said handle, the length of said handle being perpendicular to the central longitudinal axis of said elongated member.
103. (previously presented) The apparatus of claim 99, wherein at least one of said edges is sufficiently sharp to make a radial cut into the bone.
104. (previously presented) The apparatus of claim 99, wherein said sidewall has an opening in communication with said interior of said tubular member.
105. (previously presented) The apparatus of claim 99, wherein at least a portion of said bone displacement portion is adapted to extend from said distal end of said tubular member when said bone displacement device is inserted into said tubular member.

Application No. 10/692,545
Amendment dated April 18, 2006

Claim 106 (cancelled).

107. (previously presented) The system of claim 65, wherein said depth stop has a width and a height, the width of said depth stop being greater than the height of said depth stop.

108. (previously presented) The system of claim 93, wherein said bone-contacting surface includes a sharp portion.

109. (previously presented) A system for use in spinal surgery, said system comprising:

- a cannula having a proximal end, a distal end opposite said proximal end, a mid-longitudinal axis passing through said proximal and distal ends, a length from said proximal end to said distal end, a sidewall connecting said proximal and distal ends, and a hollow interior, said sidewall completely surrounding the mid-longitudinal axis of said cannula along a majority of the length of said cannula; and

- a surgical instrument comprising:

- an elongated handle having opposed ends with a length therebetween, and a rounded gripping portion, the length of said handle being the maximum dimension of said handle, said handle having a midpoint half way between said opposed ends;

- a shaft having a proximal end, a distal end, and a longitudinal central axis between said proximal and distal ends, said proximal end of said shaft being connected to said handle, the longitudinal central axis of said shaft extending through said gripping portion of said handle, the longitudinal central axis of said shaft being offset from the midpoint of said handle and at an angle to the length of the handle, the length of said shaft being sufficient to permit said arm to extend beyond said distal end of said cannula; and

- an arm extending radially from said shaft proximate said distal end of said shaft, said arm terminating in a surface adapted to directly contact and displace cancellous bone in response to moving said shaft, said arm

Application No. 10/692,545
Amendment dated April 18, 2006

having a longitudinal axis extending through said shaft and through said surface, said surface being adapted to make a path through the cancellous bone in a plane perpendicular to the longitudinal central axis of said shaft.

110. (currently amended) The system of claim 109, wherein said surgical instrument further comprises a cylindrical portion having a height parallel to the longitudinal central axis of said shaft and a diameter transverse to the ~~central~~ longitudinal central axis of said shaft, the diameter of said cylindrical portion being greater than the height of said cylindrical portion, said cylindrical portion forming a portion of said handle.
111. (previously presented) The system of claim 110, wherein said cylindrical portion is connected to said proximal end of said shaft.
112. (previously presented) The system of claim 110, wherein said handle has a width, the diameter of said cylindrical portion being greater than the width of said handle.
113. (previously presented) The system of claim 109, wherein said surface is a cutting blade.
114. (previously presented) The system of claim 109, wherein said shaft has a length, the length of said shaft being greater than the length of said handle.
115. (currently amended) The system of claim 109, wherein said ~~arm has a cutting surface~~ surface is adapted to directly contact and cut cancellous bone in response to rotating said shaft, said cutting surface being adapted to make a radial cut through the cancellous bone in ~~a~~ the plane perpendicular to the longitudinal central axis of said shaft.
116. (previously presented) The system of claim 109, wherein said arm has a maximum width transverse to the longitudinal axis of said arm, said surface having a maximum width parallel to the longitudinal central axis of said shaft, the maximum width of said surface being no greater than the maximum width of said arm.

Application No. 10/692,545
Amendment dated April 18, 2006

117. (previously presented) The system of claim 109, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface extending no more distally than said distal end of said shaft.
118. (currently amended) The system of claim 109, wherein said surface has a point most distal from said proximal end of said shaft, said distal-most point of said surface being co-planar with said distal end of said shaft in a plane perpendicular to the ~~central~~ longitudinal central axis of said shaft.
119. (previously presented) The system of claim 109, wherein said surface has a straight cutting edge.
120. (previously presented) The system of claim 109, wherein said surface is multi-faceted.

Application No. 10/692,545
Amendment dated April 18, 2006

REMARKS

The above-identified application was allowed in the office action mailed April 6, 2006. The issue fee is being paid concurrently herewith.

Subsequent to the receipt of the Notice of Allowance, applicant noted minor informalities of a typographic or grammatical nature in various claims. The requested amendment including canceling claims 96 and 106 is submitted to correct these minor informalities.

Each of the requested amendments is fully supported by the specification and drawings, will not require an additional search, and does not raise new issues. Therefore, applicant respectfully requests that this Amendment be entered and the requested changes made.

To the extent any extension of time under 37 C.F.R. § 1.136 is required to obtain entry of this reply, such extension is hereby respectfully requested. If there are any fees due under 37 C.F.R. §§ 1.16 or 1.17 which are not enclosed herewith, including any fees required for an extension of time under 37 C.F.R. § 1.136, please charge such fees to our Deposit Account No. 50-3726.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: April 18, 2006

By: Thomas H. Martin
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